



## ***Project Summary and Justification***

Department Lincoln Fire and Rescue

Division \_\_\_\_\_

service. With these improvements we would be able to provide both vital elements of our operation at our campus.

### **Project 5 Station modifications and repairs**

Many of our existing stations need some substantial modifications and/or repairs due to age. The average age of the fire station is 27 years. Limited major maintenance updates have been done to the stations in the recent past. The older facilities need to be updated with major repairs such as windows, roofs, heating/cooling and building structure additions. Fire Station 1 is unlike any of our other stations as it serves as our Administration Headquarters. Physical resources for this building are large and numerous and replacement and repair costs will be substantial. This building constructed in 1966 is in need of significant repair. Stations 3, 5, 6 will continue to serve portions of the city effectively, but should have increased space for personnel, to accommodate health, safety and gender issues. This can be done with the addition of a second story to each of these facilities. With these changes, these structures may be used for many years to come. Station 5, 7, 8, 9 & 10 need replacement or repair to concrete and asphalt surfaces, including emergency vehicle driveways and parking areas.

### **Project 6 Equipment for Heavy Rescue Unit**

The Department is currently utilizing an old public works vehicle for trench rescue, and does not currently have a vehicle or adequate equipment for Heavy rescue scenarios. This type of rescue includes a variety of technical rescue incidents which include structural collapse, trench collapse rescue, high angle and low angle and other types of rescue. In order to assure that the Department is prepared and equipped, a vehicle and additional equipment for this type of rescue is needed.

### **Project 7 Replacement of two aerials**

Our fleet of 5 aerial ladders consists of 2 units purchased in 1990 and 3 purchased in 1996. The 1990 models should be replaced when they are 15 years old.

### **Project 8 Station 11 Relocation**

For many years we have provided Fire, EMS, and Crash Fire Rescue services from Fire Station 11 in the Airpark area. We had an inter-local agreement with the Airport Authority and received revenue to provide this service for the aircraft portion. This arrangement has changed, as we no longer provide the Aircraft protection. This element is provided by the Federal Government; however, we still operate out of the Airport Authority property and still call it Fire Station 11. We currently have no agreement with the Airport Authority, we pay no rent and we receive no funds. We need to consider placing a station outside of the flight line to provide our services. Station 11 would be to NW 48<sup>th</sup> & W. Seward.

### **Project 9 Breathing Air Refilling Cascade System**

Install a breathing Air Refilling Cascade system at two locations so apparatus can replenish their breathing air supply for self contained breathing apparatus. Adding these locations will reduce the “down time” and travel distance for units to return to a ready state in less time than the current system allows.

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### **Project 10 Water Tankers**

The Department is currently providing fire protection response to areas that have been annexed that **DO NOT** have city water mains and hydrants in place. Pumpers carry 500 gallons of water on each unit. This is an adequate quantity of water for a car or trash fire, but is not adequate for a residential fire. We are dependant upon tanker water provided from Southeast Rural Fire District. There is no current plan in the public works division to install water mains and hydrants into these areas since they are existing acreage subdivisions. The most cost effective method to assure water is available for fire protection is the purchase of water tankers. These tankers would be assigned to Station 12 for the South and East areas of the City, and Station 15 for the North and West areas.

### **Project 11 Remodel Station 12**

The size of fire Engines today is significantly larger than when fire station 12 was constructed in 1975. A larger apparatus bay at Station 12 is needed to accommodate the increase in size of newer apparatus.

### **Project 12 Emergency Incident Command Post**

The LF&R command post was a refurbished 1978 motor home that was deem irreparable and dangerous on the road. It was sold for scrap due to its condition. Currently LF&R does not have a mobile command post for large scale/long duration operations. This limits the department's ability to safely conduct these types of operations. A replacement unit is needed to correct this shortfall.

### **Project 13 Replace Live Fire Burn Training Structure**

Currently the Lincoln Fire Department Maintenance and Training facility is located at 300 South Street. Our class rooms today are refurbished railroad cabooses limited in space and amenities. We desire to design and build a campus to accommodate our maintenance division as well as our training center. At this location we train all our emergency service personnel as well as other agencies throughout the city and state in many different aspects.

The live fire training tower and smoke house have considerable structural damage which is a direct result from the extreme heat conditions present with live fires and the rapid cooling effects during fire extinguishment training using hose streams. These structures were built in 1961. Live fire training in a safe controlled environment is a vital component of firefighter training to allow for realistic training for all firefighters and to assure fire ground confidence for actual operating. The proposed burn trainer is specifically engineered for cost effective replacement of minor components of the structure when this same fire extinguishment training damage occurs. The design allows for a cost effective method to replace sub assemblies of the building.

### **Project 14 Traffic Pre Emption Equipment**

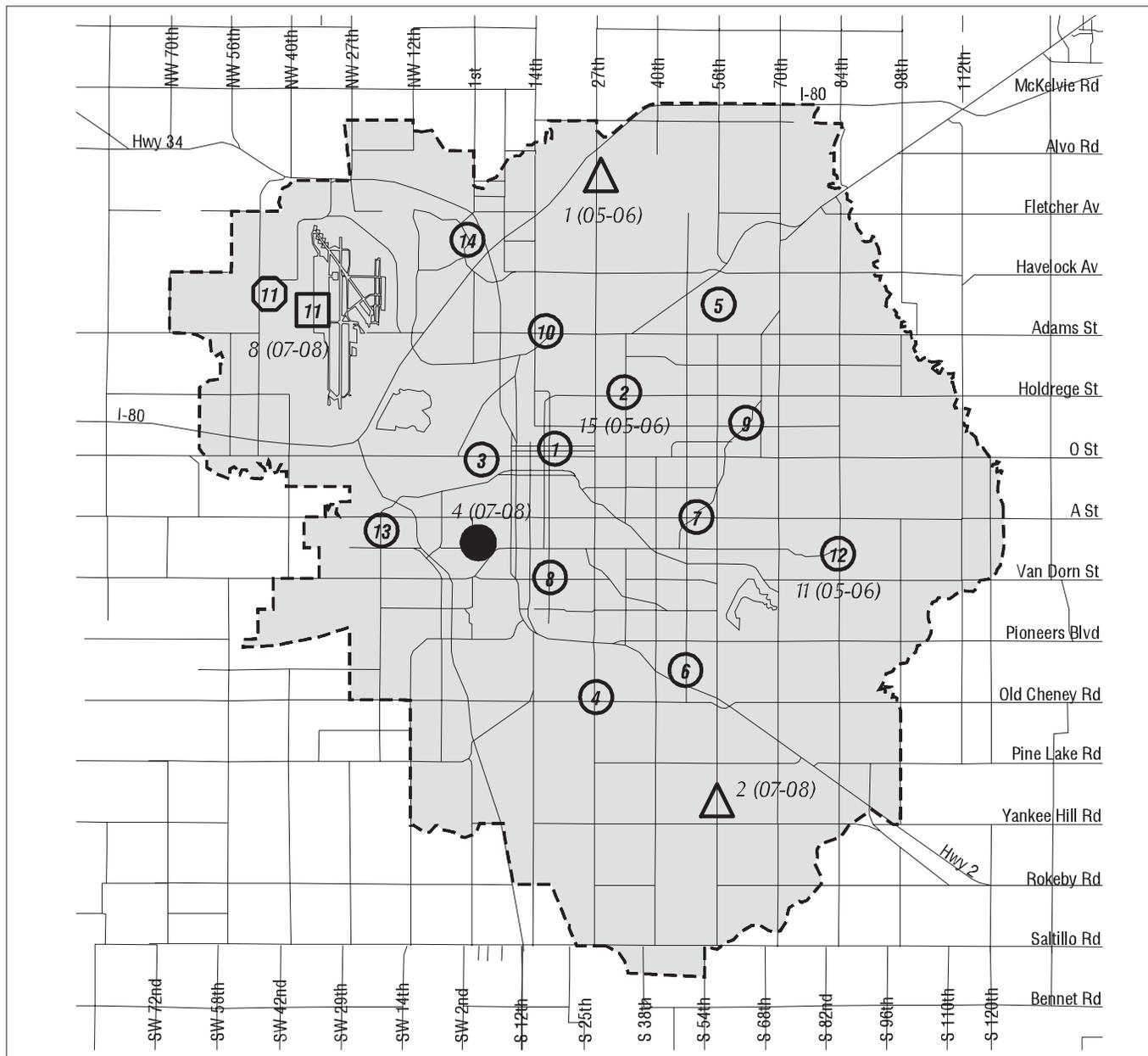
Approximately 120 intersections are currently equipped with this equipment to assist emergency fire and rescue vehicles to travel more safely when responding to incidents. Every emergency vehicle is equipped with a device that emits a flashing light, much like a strobe light. Select intersections have sensors mounted on the traffic signal head that receive the flashing light from the approaching emergency vehicle. Once the sensor recognizes the emergency vehicle, the traffic signal head will change to green from what ever color is displaying to traffic. This change is done so that opposing traffic to the direction of



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# Lincoln CIP 2004 - 2010

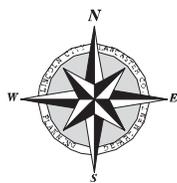
# Fire



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## Lincoln's Future Service Limit Shown as Gray

Map prepared by  
City - Co. Planning Dept  
GIS Section



M I L E S  
0 1 2 3

○ Exist Station (with Station Number)

△ Proposed New Station (Exact Location May Vary)

□ Proposed for Relocation

⬡ Relocated Station

● Educational, Training,  
Fleet Service Campus

2 (04-05) Project Number & Year

*(Capital improvements often take many years to complete. The year shown on this map reflects the start up year or year of greatest activity. Consult the detailed project lists for further information on project scheduling and likely completion.)*

**List of Projects**      *Department: Lincoln Fire & Rescue*

Project Number	Project Title
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1	Station 15
2	Station 16
3*	Automatic Vehicle Locators
4	Educational, Training, and Fleet Service Campus
5*	Station Modifications and repairs
6*	Equipment for Heavy Rescue Unit
7*	Replacement of two aerials
8	Station 11 Relocation
9*	Breathing Air Refilling Cascade System
10*	Water Tankers
11	Remodel Station 12
12*	Emergency Incident Command Post
13*	Replace Live Fire Burn Training Structure
14*	Traffic Pre-Emption Equipment
15	Station 2 Drive Through Bays
16*	Ambulance Vehicles
17*	Hazardous Material Response Vehicle

\*Indicates project is NOT shown on the map.

## 2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION:

(1)	(2)	(3)	3% Inflation per year (4)														
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)														
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS			
1	Build & Equip New Fire Station #15 at Approximately 7000 No. 27th St																
	a. Station	A			1,463.0	GO											
	b. Engine	A			252.0	GO											
	c. Truck	A			658.0	GO											
2	Build & Equip New Fire Station #16 at Approximately 56th & Cavvy Road																
	a. Station	A										1,121.8	GO				
	b. Engine	A										244.2	GO				
	c. Truck	A										627.3	GO				
3	Automatic Vehicle Locators	B			278.0	GO											
4	Educational, Training, and Fleet Service Campus	A										928.0	GO				
5	Station Modification and Repairs	B			215.0	GO						1,436.0	GO				
6	Heavy Rescue Unit and Equipment	B										334.0	GO				
7	Replacement of Two Aerial Pumpers - T8, T21	B			1,253.0	GO											
8	Station 11 Relocation	B										777.0	GO				
9	Breathing Air Refilling Cascade System - Two	B			110.0	GO											
10	Water Tankers - Two	C			144.0	GO											
11	Remodel station 12	A			570.0	GO											
12*	Command Post	C										180.0	GO				
13	Replace Live Fire Burn Training Structure	B			156.0	GO											

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.
		YEAR	FS				PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
2,373.0	None	None		2,373.0	ICWP	1	27.0	60.0	300.0	1,005.0	981.0		1
													2
1,993.3	None	None		1,993.3	ICWP	1	27.0	60.0		1,035.0	871.0		
278.0	None	None		278.0	GCP	0					278.0		3
928.0	None	None		928.0	GCP	1				928.0			4
1,651.0	None	None		1,651.0	GCP	2				1,651.0			5
334.0	None	None		334.0	GCP	0					365.0		6
1,253.0	None	None		1,253.0	GCP	0					1,253.0		7
777.0	None	None		777.0	ICWP	1		19.0	51.0	649.0	58.0		8
110.0	None	None		110.0	GCP	2					110.0		9
144.0	None	None		144.0	GCP	1					144.0		10
570.0	None	None		570.0	GCP	1	18.0	10.0	26.0	516.0			11
180.0	None	None		180.0	GCP	0					180.0		12*
156.0	None	None		156.0	GCP	1				156.0			13

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION:

(1)	(2)	(3)	3% Inflation per year (4)													
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)													
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS		
14	Traffic Pre-Emption Equipment	B			177.0	GO										
15*	Station 2 Drive Through Bays	C			63.0	GO										
16	Ambulance Vehicles	B					450.0	UF								
17*	Hazardous Material Response Vehicle	B			300.0	GO										
FUNDING SOURCE BREAKDOWN:																
	UF (User Fees)		0.0		0.0		450.0		0.0		0.0		0.0		0.0	
	GR (General Revenue)		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	GO (G.O. Bonds)		0.0		5,639.0		0.0		5,648.3		0.0		0.0		0.0	
	DEPARTMENT TOTALS:		0.0		5,639.0		450.0		5,648.3		0.0		0.0		0.0	

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS (000's)		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		YEAR	FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
177.0	None	None		177.0	GCP	1						177.0		14
63.0	None	None		63.0	GCP	1				63.0				15*
450.0	None	None		450.0	GCP	0						450.0		16
300.0	None	None		300.0	GCP	0						300.0		17*
450.0														
0.0														
11,287.3														
=====														
11,737.3														

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